

WHAT IS CLAIMED IS:

1. A compliant laminar eddy current sensitivity standard comprising:

a sheet of nonconductive, nonmagnetic material;

at least one strand of highly conductive material embedded in said sheet; and

an adhesive layer affixed to a surface of said nonconductive, nonmagnetic material.

2. A compliant laminar eddy current sensitivity standard according to claim 1, wherein said nonconductive, nonmagnetic material comprises a polymer material.

3. A compliant laminar eddy current sensitivity standard according to claim 2, wherein said polymer material is selected from the group consisting of a polyethylene terephthalate material, a polytetrafluoroethylene material, a polyamide material, and mixtures thereof.

4. A compliant laminar eddy current sensitivity standard according to claim 1, wherein said nonconductive, nonmagnetic material has a thickness less than about 0.0060 inches.

5. A compliant laminar eddy current sensitivity standard according to claim 1, wherein said nonconductive, nonmagnetic material has a thickness less than about 0.0050 inches.

6. A compliant laminar eddy current sensitivity standard according to claim 1, wherein said highly conductive material is

7. A compliant laminar eddy current sensitivity standard according to claim 6, wherein each said strand is formed from aluminum foil and has a width in the range of from about 0.050 inches to about 0.110 inches and a thickness in the range of from about 0.002 inches to about 0.004 inches..

9. A compliant laminar eddy current sensitivity standard according to claim 6, wherein each said strand is formed from a copper foil having a width in the range of about 0.010 inches to about 0.040 inches and a thickness in the range of from about 0.0007 inches to about 0.0014 inches.

10. A compliant laminar eddy current sensitivity standard according to claim 1, wherein said nonconductive, nonmagnetic material and each said highly conductive strand have the same length.

11. A compliant laminar eddy current sensitivity standard according to claim 1, wherein said adhesive layer is formed from a pressure sensitive adhesive.

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13. A compliant laminar eddy current sensitivity standard according to claim 11, wherein said adhesive layer has a thickness less than or equal to about 0.0010 inches.

14. A compliant laminar eddy current sensitivity standard according to claim 1, further comprising a removable backing material affixed to a surface of said adhesive layer.

15. A compliant laminar eddy current sensitivity standard according to claim 1, wherein said sheet has a size and shape which corresponds to the size and shape of a part to be inspected.

16. A method of using a compliant laminar eddy current sensitivity standard comprising the steps of:

providing a sheet of nonconductive, nonmagnetic material having at least one strand of highly conductive material embedded in the sheet and an adhesive layer affixed to a surface of the nonconductive, nonmagnetic material;

adhering said individual sensitivity standard to a surface of said part to be inspected; and

passing an eddy current probe over a surface of said individual sensitivity standard.